

=> s (precursor# or progenitor#) (120a) GFAP#
L1 921 (PRECURSOR# OR PROGENITOR#) (120A) GFAP#

=> s l1 and (CNTF and (FGF or bFGF))
L2 87 L1 AND (CNTF AND (FGF OR BFGF))

=> s l2 and (PDGF and T3)
L3 19 L2 AND (PDGF AND T3)

=> duplicate remove
ENTER L# LIST OR (END):l3
DUPLICATE PREFERENCE IS 'USPATFULL, PCTFULL'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L3
L4 19 DUPLICATE REMOVE L3 (0 DUPLICATES REMOVED)

=> d 1-19

L4 ANSWER 1 OF 19 USPATFULL
AN 2002:48319 USPATFULL
TI Human cord blood as a source of neural tissue for repair of the brain
and spinal cord
IN Sanberg, Paul, Spring Hill, FL, UNITED STATES
Sanchez-Remos, Juan, Tampa, FL, UNITED STATES
Willing, Alison, Tampa, FL, UNITED STATES
Richard, Daniel D., Sedona, AZ, UNITED STATES
PI US 2002028510 A1 20020307
AI US 2001-801221 A1 20010307 (9)
PRAI US 2000-188069P 20000309 (60)
US 2001-269238P 20010216 (60)
DT Utility
FS APPLICATION
LN.CNT 3155
INCL INCLM: 435/368.000
NCL NCLM: 435/368.000
IC [7]
ICM: C12N005-08

L4 ANSWER 2 OF 19 USPATFULL
AN 2002:16585 USPATFULL
TI Porcine neural cells and their use in treatment of neurological deficits
due to neurodegenerative diseases
IN Isacson, Ole, Cambridge, MA, UNITED STATES
Dinsmore, Jonathan, Brookline, MA, UNITED STATES
PA Diacrin, Inc. (U.S. corporation)
PI US 2002009461 A1 20020124
AI US 2001-847881 A1 20010502 (9)
RLI Division of Ser. No. US 1995-554779, filed on 7 Nov 1995, GRANTED, Pat.
No. US 6258353 Continuation-in-part of Ser. No. US 1995-424851, filed on
19 Apr 1995, GRANTED, Pat. No. US 6294383 Continuation-in-part of Ser.
No. US 1994-336856, filed on 8 Nov 1994, ABANDONED
DT Utility
FS APPLICATION
LN.CNT 5037
INCL INCLM: 424/193.100
INCLS: 424/093.700; 435/325.000
NCL NCLM: 424/193.100
NCLS: 424/093.700; 435/325.000
IC [7]
ICM: A61K039-385
ICS: C12N005-06; A61K045-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 3 OF 19 PCTFULL COPYRIGHT 2002 Univentio
AN 2002042445 PCTFULL ED 20020610 EW 200222
TIEN DIFFERENTIATED CELLS SUITABLE FOR HUMAN THERAPY
TIFR CELLULES DIFFERENCIEES UTILISABLES EN THERAPIE D'UN INDIVIDU HUMAIN
IN GOLD, Joseph, D.; LEBROWSKI, Jane, S.

PA GERON CORPORATION, for all designates States except US; GONZALEZ Joseph,
D., for US only; LEBROWSKI, Jane, S., for US only
AG SCHIFF, J., Michael
LAF English
LA English
DT Patent
PI WO 2002042445 A2 20020530
DS AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL
TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG
ZM ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT
LU MC NL PT SE TR BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
AI WO 2001-US44309 A 20011126
PRAI US 2000-60/253,443 20001127
US 2000-60/253,357 20001127
US 2001-09/783,203 20010213
ICM C12N015-00

L4 ANSWER 4 OF 19 PCTFULL COPYRIGHT 2002 Univentio
AN 2002034889 PCTFULL ED 20020515 EW 200218
TI THERAPEUTIC USES FOR MESENCHYMAL STROMAL CELLS
TIFR UTILISATIONS THERAPEUTIQUES DE CELLULES STROMALES MESENCHYMATEUSES
IN COYLE, Andrew, J.; GRINSPAN, Judith; BEESLEY, Jackie, S.; TENNEKON,
Gihan
PA COYLE, Andrew, J., for US only; GRINSPAN, Judith, for US only; BEESLEY,
Jackie, S., for US only; TENNEKON, Gihan
AG BENT, Stephen, A.
LAF English
LA English
DT Patent
PI WO 2002034889 A2 20020502
DS AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK
SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ
UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT
LU MC NL PT SE TR BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
AI WO 2001-US32634 A 20011024
PRAI US 2000-60/242,674 20001024
ICM C12N005-06
ICS C12N005-08; C12N005-02; A61K035-28; A61P025-28

L4 ANSWER 5 OF 19 USPATFULL
AN 2001:176389 USPATFULL
TI Lineage restricted glial precursors from the central nervous system
IN Rao, Mahendra S., Salt Lake City, UT, United States
Noble, Mark, Brighton, NY, United States
Mayer-Proschel, Margot, Pittsford, NY, United States
PI US 2001029045 A1 20011011
AI US 2001-736728 A1 20010316 (9)
RLI Continuation of Ser. No. US 1997-980850, filed on 29 Nov 1997, GRANTED,
Pat. No. US 6235527
DT Utility
FS APPLICATION
LN.CNT 1440
INCL INCLM: 435/325.000
INCLS: 424/093.700
NCL NCLM: 435/325.000
NCLS: 424/093.700
IC [7]
ICM: C12N005-08
ICS: C12N005-06

L4 ANSWER 6 OF 19 USPATFULL
AN 2001:107439 USPATFULL
TI Porcine neural cells and their use in treatment of neurological deficits
due to neurodegenerative diseases
IN Isacson, Ole, Cambridge, MA, United States

Dinsmore, Jonathan, Brookline, MA, United States
PA Diacrin, Inc., Charlestown, MA, United States (U.S. corporation)
PI US 6258353 B1 20010710
AI US 1995-554779 19951107 (8)
RLI Continuation-in-part of Ser. No. US 1995-424851, filed on 19 Apr 1995
Continuation-in-part of Ser. No. US 1994-336856, filed on 8 Nov 1994,
now abandoned
DT Utility
FS GRANTED
LN.CNT 5157
INCL INCLM: 424/093.100
INCLS: 424/093.700; 424/130.100; 424/143.100; 424/809.000; 435/325.000;
435/368.000
NCL NCLM: 424/093.100
NCLS: 424/093.700; 424/130.100; 424/143.100; 424/809.000; 435/325.000;
435/368.000
IC [7]
ICM: A01N003-00
ICS: C12N015-85; C12N015-86; A61K039-395
EXF 424/93.7; 424/93.1; 424/130.1; 424/143.1; 424/809; 435/325; 435/368
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 7 OF 19 USPATFULL
AN 2001:75180 USPATFULL
TI Lineage restricted glial precursors from the central nervous system
IN Rao, Mahendra S., Salt Lake City, UT, United States
Noble, Mark, Sandy, UT, United States
Mayer-Proschel, Margot, Sandy, UT, United States
PA University of Utah Research Foundation, Salt Lake City, UT, United
States (U.S. corporation)
PI US 6235527 B1 20010522
AI ~~US 1997-980850~~ 19971129 (8)
DT Utility
FS Granted
LN.CNT 1297
INCL INCLM: 435/325.000
INCLS: 435/368.000; 435/395.000; 435/402.000; 435/378.000
NCL NCLM: 435/325.000
NCLS: 435/368.000; 435/378.000; 435/395.000; 435/402.000
IC [7]
ICM: C12N005-06
ICS: C12N005-08
EXF 435/325; 435/368; 435/378; 435/395; 435/402; 424/93.21

L4 ANSWER 8 OF 19 PCTFULL COPYRIGHT 2002 Univentio
AN 2001088104 PCTFULL ED 20020826
TIEN NEURAL PROGENITOR CELL POPULATIONS
TIFR POPULATIONS DE PROGENITEURS NEURONAUX
IN CARPENTER, Melissa, K.
PA GERON CORPORATION; CARPENTER, Melissa, K.
DT Patent
PI WO 2001088104 A2 20011122
DS AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS
LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ
TM TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW
AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC
NL PT SE TR BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
AI WO 2001-US15861 A 20010516
PRAI US 2000-60/205,600 20000517
US 2000-60/257,608 20001222
ICM C12N005-06
ICS C12N001-36; C12N015-11; C12Q001-68; G01N033-53; A61K035-30; A61P025-00

L4 ANSWER 9 OF 19 PCTFULL COPYRIGHT 2002 Univentio
AN 2001078753 PCTFULL ED 20020826
TIEN THERAPEUTIC USES FOR MESENCHYMAL STROMAL CELLS
TIFR UTILISATIONS THERAPEUTIQUES DE CELLULES STROMALES MESENCHYMATEUSES
IN TENNEKON, Gihan; COYLE, Andrew, J.; GRINSPAN, Judith; BEESLEY,

Jacqueline, S.
PA CHILDREN'S HOSPITAL OF PHILADELPHIA; TENNEKON, Gihan; COYLE, Andrew,
J.; GRINSPAN, Judith; BEESLEY, Jacqueline, S.
DT Patent
PI WO 2001078753 A2 20011025
DS AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS
LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ
TM TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW
AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC
NL PT SE TR BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
AI WO 2001-US12002 A 20010412
PRAI US 2000-60/196,473 20000412
ICM A61K035-12
ICS C12N005-06; C12N005-08; A61P025-00; C12N005-10

L4 ANSWER 10 OF 19 PCTFULL COPYRIGHT 2002 Univentio
AN 2001066698 PCTFULL ED 20020822
TIEN HUMAN CORD BLOOD AS A SOURCE OF NEURAL TISSUE FOR REPAIR OF THE BRAIN
AND SPINAL CORD
TIFR CELLULES SANGUINES DU CORDON OMBILICAL HUMAIN UTILISEES COMME SOURCE DE
TISSU NEURAL PERMETTANT DE REPARER LE CERVEAU ET LA MOELLE EPINIERE
IN SANBERG, Paul; SANCHEZ-RAMOS, Juan; WILLING, Alison; RICHARD, Daniel, D.
PA CRYO-CELL INTERNATIONAL, INC.; UNIVERSITY OF SOUTH FLORIDA
DT Patent
PI WO 2001066698 A1 20010913
DS AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
TR TT TZ UA UG UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM AZ
BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT
SE TR BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
AI WO 2001-US7200 A 20010307
PRAI US 2000-60/188,069 20000309
US 2001-60/269,238 20010216
ICM C12N005-00
ICS C12N005-02; C12N005-06; C12N005-08

L4 ANSWER 11 OF 19 PCTFULL COPYRIGHT 2002 Univentio
AN 2001053465 PCTFULL ED 20020827
TIEN HUMAN EMBRYOID BODY-DERIVED CELLS
TIFR CELLULES ISSUES DE CORPS EMBRYOIDES HUMAINS
IN SHAMBLOTT, Michael, J.; GEARHART, John, D.
PA JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE; SHAMBLOTT, Michael, J.;
GEARHART, John, D.
DT Patent
PI WO 2001053465 A1 20010726
DS AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM AZ BY KG KZ
MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR BF
BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
AI WO 2001-US2230 A 20010122
PRAI US 2000-60/177,287 20000121
ICM C12N005-08

L4 ANSWER 12 OF 19 PCTFULL COPYRIGHT 2002 Univentio
AN 2001028574 PCTFULL ED 20020820
TIEN METHODS FOR INDUCING IN VIVO PROLIFERATION AND MIGRATION OF TRANSPLANTED
PROGENITOR CELLS IN THE BRAIN
TIFR PROCEDES D'INDUCTION DE LA PROLIFERATION ET LA MIGRATION IN VIVO DE
CELLULES PROGENITRICES TRANSPLANTEES DANS LE CERVEAU
IN FRICKER, Rosemary, A.
PA STEM CELLS, INC.; FRICKER, Rosemary, A.
DT Patent
PI WO 2001028574 A2 20010426
DS AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT

LU LV MA MD MG MK MN MW M Z NO NZ PL PT RO RU SD SE SG S K SL TJ TM
TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM
AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL
PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

AI WO 2000-US41365 A 20001020
PRAI US 1999-60/160,553 19991020
ICM A61K035-30
ICS A61K038-18; A61K048-00; A61K025-28

L4 ANSWER 13 OF 19 USPATFULL
AN 2000:146162 USPATFULL
TI Isolated and modified porcine cerebral cortical cells
IN Dinsmore, Jonathan, Brookline, MA, United States
PA Diacrin, Inc., Charlestown, MA, United States (U.S. corporation)
PI US 6140116 20001031
AI US 1995-551820 19951107 (8)
RLI Continuation-in-part of Ser. No. US 1995-424856, filed on 19 Apr 1995
which is a continuation-in-part of Ser. No. US 1995-336856, filed on 8
Nov 1995, now abandoned
DT Utility
FS Granted
LN.CNT 5001
INCL INCLM: 435/325.000
INCLS: 435/374.000; 424/093.700
NCL NCLM: 435/325.000
NCLS: 424/093.700; 435/374.000
IC [7]
ICM: C12N005-00
EXF 435/325; 435/374; 435/93.7
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 14 OF 19 USPATFULL
AN 2000:34426 USPATFULL
TI In vitro generation of differentiated neurons from cultures of mammalian
multipotential CNS stem cells
IN Johe, Karl K., Potomac, MD, United States
PA NeuralStem Biopharmaceuticals, Ltd., College Park, MD, United States
(U.S. corporation)
PI US 6040180 20000321
AI US 1997-919580 19970507 (8)
RLI Continuation-in-part of Ser. No. US 1996-719450, filed on 25 Sep 1996,
now patented, Pat. No. US 5753506
PRAI US 1996-18206P 19960523 (60)
DT Utility
FS Granted
LN.CNT 2187
INCL INCLM: 435/377.000
INCLS: 435/325.000; 435/368.000; 435/353.000
NCL NCLM: 435/377.000
NCLS: 435/325.000; 435/353.000; 435/368.000
IC [7]
ICM: C12N005-06
EXF 435/325; 435/375; 435/377; 435/347; 435/352; 435/363; 435/366; 435/368
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 15 OF 19 PCTFULL COPYRIGHT 2002 Univentio
AN 2000068359 PCTFULL ED 20020515
TIEN LINEAGE-RESTRICTED PRECURSOR CELLS ISOLATED FROM MOUSE NEURAL TUBE AND
MOUSE EMBRYONIC STEM CELLS
TIFR CELLULES PRECURSEURS A RESTRICTION DE LIGNAGE, ISOLEES A PARTIR DU TUBE
NEURAL DE SOURIS ET DE CELLULES SOUCHES EMBRYONNAIRES DE SOURIS
IN MUJTABA, Tahmina; RAO, Mahendra, S.
PA UNIVERSITY OF UTAH RESEARCH FOUNDATION; MUJTABA, Tahmina; RAO, Mahendra,
S.
LA English
DT Patent
PI WO 2000068359 A1 20001116
DS AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA

MD MG MK MN MW MX NO NZ P RO RU SD SE SG SI SK SL TJ T R TT TZ UA
UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD
RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF
CG CI CM GA GN GW ML MR NE SN TD TG

AI WO 2000-US12446 A 20000505
PRAI US 1999-60/133,159 19990507
ICM C12N001-00
ICS C12N005-06; C12N005-10

L4 ANSWER 16 OF 19 PCTFULL COPYRIGHT 2002 Univentio
AN 2000029549 PCTFULL ED 20020515
TIEN LOW OXYGEN CULTURING OF CELLS
TIFR CULTURE CELLULAIRE DANS DES CONDITIONS A FAIBLE TENEUR EN OXYGENE
IN CESTE, Marie; DOYLE, John; WOLD, Barbara, J.; MORRISON, Sean, J.;
ANDERSON, David
PA CALIFORNIA INSTITUTE OF TECHNOLOGY; CESTE, Marie; DOYLE, John; WOLD,
Barbara, J.; MORRISON, Sean, J.; ANDERSON, David
LA English
DT Patent
PI WO 2000029549 A2 20000525
DS AU CA JP US US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
AI WO 1999-US27532 A 19991118
PRAI US 1998-09/195,569 19981118
US 1999-09/425,462 19991022
ICM C12N005-00
ICS C12Q001-02; C12N005-10; A61K035-30; A61P025-00; A61P025-16

L4 ANSWER 17 OF 19 PCTFULL COPYRIGHT 2002 Univentio
AN 1999028443 PCTFULL ED 20020515
TIEN LINEAGE RESTRICTED GLIAL PRECURSORS FROM THE CENTRAL NERVOUS SYSTEM
TIFR PRECURSEURS GLIAUX A LIGNAGE RESTREINT TIRES DU SYSTEME NERVEUX CENTRAL
IN RAO, Mahendra, S.; NOBLE, Mark; MAYER-PROSCHEL, Margot
PA UNIVERSITY OF UTAH RESEARCH FOUNDATION
LA English
DT Patent
PI WO 9928443 A1 19990610
DS CA JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
AI WO 1998-US24456 A 19981117
PRAI US 1997-08/980,850 19971129
ICM C12N005-06
ICS C12N005-08

L4 ANSWER 18 OF 19 USPATFULL
AN 1998:54752 USPATFULL
TI Isolation propagation and directed differentiation of stem cells from
embryonic and adult central nervous system of mammals
IN Johe, Karl K., Potomac, MD, United States
PA CNS Stem Cell Technology, Inc., Bethesda, MD, United States (U.S.
corporation)
PI US 5753506 19980519
AI US 1996-719450 19960925 (8)
PRAI US 1996-18206P 19960523 (60)
DT Utility
FS Granted
LN.CNT 1705
INCL INCLM: 435/377.000
INCLS: 435/325.000; 435/366.000; 435/368.000
NCL NCLM: 435/377.000
NCLS: 435/325.000; 435/366.000; 435/368.000
IC [6]
ICM: C12N005-08
EXF 435/240.2; 435/240.21; 435/240.23; 435/240.1; 435/325; 435/347; 435/352;
435/363; 435/366; 435/368; 435/375; 435/377
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 19 OF 19 PCTFULL COPYRIGHT 2002 Univentio
AN 1998050525 PCTFULL ED 20020514
TIEN EMBRYONIC AND ADULT CNS STEM CELLS
TIFR CELLULES SOUCHES PROVENANT DU SYSTEME NERVEUX CENTRAL ADULTE ET

EMBRYONNAIRE
IN JOHE, Karl, K.
PA NEURALSTEM BIOPHARMACEUTICALS
LA English
DT Patent
PI WO 9850525 A1 19981112
DS AU CA JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
AI WO 1998-US9236 A 19980506
PRAI US 1997-8/919,580 19970507
US 1998-9/053,414 19980401
ICM C12N005-06
ICS C12N005:10; C12Q001:68; G01N033:53; C07K002:00; A61K038:02; A61K035:30